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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR PGI6044P0281US 2158 10/021,456 Herbert Parks Hartgrove 12/13/2001 **EXAMINER** 07/02/2004 32116 WOOD, PHILLIPS, KATZ, CLARK & MORTIMER BEFUMO, JENNA LEIGH 500 W. MADISON STREET ART UNIT PAPER NUMBER **SUITE 3800** CHICAGO, IL 60661 1771

DATE MAILED: 07/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/021,456	HARTGROVE ET AL.
	Examiner	Art Unit
	Jenna-Leigh Befumo	1771
The MAILING DATE of this communication eriod for Reply	appears on the cover sheet with	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and a lift NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a replace. A reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT that the statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
tatus		
1) Responsive to communication(s) filed on 2	1 April 2004.	
	This action is non-final.	
3) Since this application is in condition for allo	wance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.
isposition of Claims		
 4) Claim(s) 1-15 is/are pending in the applicate 4a) Of the above claim(s) 1-7 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 8-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and 	wn from consideration.	
pplication Papers	id/or election requirement.	
9) The specification is objected to by the Exam	niner.	
10) The drawing(s) filed on is/are: a)		v the Examiner.
Applicant may not request that any objection to		· ·
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the		
riority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	plication No received in this National Stage
* See the attached detailed Office action for a	ust of the certified copies not re	eceivea.
ttachment(s)		•
Notice of References Cited (PTO-892)	4) Interview Su	ımmary (PTO-413)
	• —	/Mail Date
Notice of Draftsperson's Patent Drawing Review (PTO-948)		formal Patent Application (PTO-152)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 21, 2004 has been entered.
- 2. The pending claims are claims 1 15. Claims 1 7 are withdrawn from consideration as being drawn to a nonelected invention.

Claim Rejections - 35 USC § 112

3. Claims 8 – 15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The flame retardant binder composition made from a halogenated derivative of a polyurethane backbone recited in claim 8 is not enable. A flame retardant composition based on a halogenated derivative of a polyurethane backbone cannot be found in any textbooks or in a search of the patents database. Further, the specific example Pyron 6135 mentioned in the examples cannot be found either. The name PYRON is a trademark which refers to PAN fibers which are fire retardant and one patent, US 5,437,690, discloses that pyron is a brominated chlorinated phosphonate flame retardant composition. However, no reference can be found which combines halogens with a polyurethane backbone to form a flame retardant composition. Should the backbone be

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phosphorus backbone which is combined with halogens to form a fire retardant composition? Since the polyurethane composition claimed by the Applicant, is not known or taught in the prior art, one of ordinary skill in the art would not be able to produce claimed product, since the disclosure does not teach how to make the binder having a halogenated derivative of a polyurethane backbone.

In the response filed April 21, 2004, the Applicant provided the MSDS for both Pyron 6135 and Pyron 6139 which are available from the chemical company Chemonics Industries. However, the MSDS do not provide the chemical structure of these compounds. Instead the chemicals are described generically as a "FR latex compound". While these chemicals might be available commercially, this is not sufficient evidence to enable the claimed flame retardant binder composition made from a halogenated derivative of a polyurethane backbone because neither of these documents establish that the chemical is actually a polyurethane compound. Further, the search done by the examiner did not turn up any compounds which contained halogenated polyurethanes, let alone fire retardant halogenated polyurethanes. And the only other mention of chemicals referred to as pyron and produced by Chemonics Industries is in US Patent 5,437,690 which discloses that the material is a fire retardant composition with a phosphorus backbone. Therefore, the Applicant must provide evidence that the chemical used as a fire retardant compound has a polyurethane backbone and not a phosphorus backbone to overcome this rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenna-Leigh Befumo whose telephone number is (571) 272-1472. The examiner can normally be reached on Monday - Friday (8:00 - 5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jenna-Leigh Befumo June 16, 2004